# **Dust Control Plan**

## For

# Navajo Generating Station

Pursuant to the Source-Specific Federal Implementation Plan 40 CFR Part 49

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#### 1.0 INTRODUCTION AND PURPOSE

Salt River Project's (SRP's) Navajo Generating Station (NGS) facility is committed to responsible and sustainable stewardship of the environment; and compliance with the requirements of the United States Environmental Protection Agency's (EPA's) Federal Implementation Plan (FIP) for NGS, recorded in the Federal Register under 40 CFR Part 49. This Dust Control Plan (DCP) describes methods and procedures to minimize emissions from point and non-point dust sources and maintain compliance with the FIP.

FIP conditions in 40 CFR Part 49 §49.24(d)(3) specify that:

"Each owner or operator shall operate and maintain the existing dust suppression methods for controlling dust from the coal handling and storage facilities. Within 90 days after promulgation of these regulations the owner or operator shall submit to the Regional Administrator a description of the dust suppression methods for controlling dust from the coal handling and storage facilities, fly ash handling and storage, and road sweeping activities. Each owner or operator shall not emit dust with opacity greater than 20% from any crusher, grinding mill, screening operation, belt conveyor, truck loading or unloading operation, or railcar unloading station."

#### 2.0 FACILITY DETAILS

NGS is a participant owned generating plant managed by SRP. NGS is located on leased land 5 miles southeast of Page Arizona at 4365 feet (elevation). The participants are U.S. Bureau of Reclamation (24.3% ownership), Los Angeles Department of Water and Power (21.2%), Salt River Project (21.7%), Arizona Public Service (14.0%), Nevada Power (11.3%) and Tucson Electric Power Co. (7.5%). NGS is a three-unit coal fired power plant (supercritical design tangentially-fired boilers) generating 2250 net megawatts of power.

Bituminous coal is mined by Peabody Energy at the Black Mesa Mine Complex and delivered by electric rail to NGS. Coal is then transferred via enclosed conveyor systems for burning in the boilers or stacked out to a storage pile for later use.

The management of coal combustion residues and the delivery of limestone for the SO2 scrubbers is contracted to a third party entity but SRP remains the responsible party for truck loading and unloading operations, material transfer, storage, and disposal activities. Coal combustion residues include flyash, bottom ash, and scrubber byproducts. Bottom ash and scrubber byproducts are handled in a wet state which minimizes the potential for dust emissions and these materials are not addressed in the FIP and in this document.

#### 3.0 GEOGRAPHY AND CLIMATE

NGS is located in an arid desert environment receiving an annual average of seven and half inches of precipitation. The surrounding geologic formations include outcroppings of the Carmel formation, Page Sandstone, and Navajo Sandstone. Weathering of these formations have created substrates of unconsolidated aeolian sands and partially stabilized dune deposits with sparse vegetation.

#### 4.0 DUST SUPPRESSION METHODS

The FIP requires in 40 CFR Part 49 §49.24(d)(3) a description of the dust suppression methods for coal handling and storage facilities, fly ash handling and storage, and road sweeping activities.

The tables contained in this section outline preventive and mitigating control measures as guidelines to minimize dust emissions from paved and unpaved roads, storage piles, and the material handling related to coal, fly ash, and limestone.

### 4.1 Roadways

Dust emissions from roadways are mitigated using control measures outlined below. Main trafficked areas are sprayed with water daily (weather permitted) and speed limits are observed. During winter months, ice formation may preclude water spraying due to safety consideration.

<u>Roadway Non-Point Sources:</u> One or more of the following control measures will be implemented to minimize dust emissions from roadway sources.

**TABLE 1.0 Control Measure Guidelines:** 

Source:	Roadway Dust Control Measures		
Paved Roads:	1. Water spray roads		
Traffic Activity	2. Speed reduction		
	3. Limit Traffic		
	4. Sweeping of roads		
<b>Unpaved Roads:</b>	1. Water spray roads		
Traffic Activity	2. Speed reduction		
	3. Limit traffic		
	4. Gravel surface		
	5. Chemical stabilization		
Carryout	<ol> <li>Clean vehicles before entering roadway</li> </ol>		
	2. Pave access road near plant site exit		
	3. Rapid cleanup after spill events		

Monitor: Verify control measures weekly.

### **4.2 Material Storage**

**Table 2.0 Control Measure Guidelines:** 

### **Material Storage**

Control techniques applicable to outdoor material storage piles fall into distinct categories as related to handling operations (including traffic around piles) and mitigating wind erosion. In both cases, the control can be achieved by implementing one or more of the following strategies: (a) source extent reduction, (b) source improvement related to work practices and transfer equipment (load-in and load-out operations), and (c) surface treatments.

*- ****==*=****			
	Material Disturbance and Wind Erosion Control Measures:		
Source control	Minimize exposed surface area		
	2. Minimize surface disturbances and material handling		
Source improvement	Reduce drop height when handling material		
	2. Maintain moisture and crust, as applicable		
	3. Shelter from wind, as applicable		
Surface treatment	1. Water Spraying, as applicable		
	2. Chemical stabilization		

Monitor: Verify control measures weekly.

### 4.3 Coal Handling

SRP's responsibilities extend to all aspects of coal handling and storage; this includes implementing dust control measures for the following:

<u>Coal Handling Non-Point Sources:</u> One or more of the following control measures will be implemented by NGS to minimize dust emissions from the potential sources listed below:

**TABLE 3.0 Control Measure Guidelines:** 

Source: (Unit ID)	Material Handling Control Measures		
Material Handling: (CT1)	Shelter from wind - enclosure		
Railroad car unloading	2. Reduce drop height – minimum hopper level		
operations	maintained		
-	3. Watering spraying		
(L1-L12) Twelve hopper	1. Shelter from wind - enclosure		
feeders	2. Water spraying		
	3. Chemical stabilization		
(BC-1) Belt Conveyor	Shelter from wind - enclosure		
	2. Water spraying		
	3. Chemical stabilization		
(BC-2)	Shelter from wind - enclosure		
	2. Maintain moisture		
(BC-3)	1. Shelter from wind - enclosure		
	2. Maintain moisture		
(BC-4)	1. Shelter from wind - enclosure		
	2. Maintain moisture		
(BC-4A)	Shelter from wind - enclosure		
	2. Maintain moisture		
(BFD-5A)	Shelter from wind - enclosure		

Belt Feeder Deck	2. Maintain moisture	
(BC-5)	Shelter from wind - enclosure	
	2. Maintain moisture	
<b>(BC-6A)</b> 1 of 3 stacker /	1. Shelter from wind - enclosure	
reclaimer reversible	2. Water spraying	
conveyers	3. Chemical stabilization	
<b>(BC-6B)</b> 2 of 3 stacker	1. Shelter from wind - enclosure	
conveyer only	2. Maintain moisture	
( <b>BC-6C</b> ) 3 of 3 stacker /	1. Shelter from wind - enclosure	
reclaimer reversible		
conveyers		
(BC-6)	1. Shelter from wind - enclosure	
	2. Water spraying	
	3. Chemical stabilization	
( <b>BC-7</b> ) One conveyor to the	1. Shelter from wind - enclosure	
emergency reclaim hopper	2. Water spraying	
	3. Chemical stabilization	
Wind Erosion: (CS) Outdoor	1. Maintain moisture	
coal storage piles	2. Water spraying	
	3. Chemical stabilization	

Monitor: Verify control measures weekly.

<u>Coal Handling Point Sources:</u> The potential sources listed in Table 4.0 utilize particulate control devices to control emissions.

**TABLE 4.0 Emission Control Devices:** 

Unit ID / Stack ID:	Control Device	Make / Size	Stack Details
YSB-1 BC-8A & BC-8B BC-8A & BC-8B screening operation	DC-8 (Sample Bldg – 100 feet elevation)	Peabody Lugar LT (Air Flow 20,000 acfm)	Exit opening facing eastward on east side of EF-8. Opening: 1.5 feet by 2 feet
PSB-1 BC-9A & BC-9B BC-10A & BC-10B	DE-5 (Cascade Enclosure - 135 feet elevation)	SIEMENS Dust Eliminator System	Exit opening is outside building facing west. Opening: 3 feet by 3 feet
CC-1A thru CC-9A; CC-1B thru CC-9B; BC-11A & BC-11B		dust emissions from the by DE-1 through DE-4	•
Silos 1A thru 1G	DE-1 & DE-2 (Cascade Enclosure - 135 feet elevation)	SIEMENS and PR-1, SR-1 & EX-1	Exit opening is outside building facing east. Opening: 3 feet by 3 feet

Silos 2A thru 2G	DE-3 & DE-4 (Cascade Enclosure - 135 feet elevation)	SIEMENS and PR-2, SR-2 & EX-2	Exit opening is outside building facing east. Opening: 3 feet by 3 feet
Silos 3A thru 3G	DE-6 & DE-7 (Cascade Enclosure - 135 feet elevation)	SIEMENS and PR-3, SR-3 & EX-3	Exit opening is outside building facing east. Opening: 3 feet by 3 feet

<u>Monitor</u>: Weekly visible emission observations will be recorded for each control device listed above that is operating. If visible emissions are observed, opacity readings will be conducted in accordance with EPA Method 9.

## 4.4 Fly Ash Handling

SRP's responsibilities extend to all aspects of flyash handling and storage although some activities are managed by a third party contractor:

<u>Fly Ash Non-point Sources:</u> The activities in Table 5.0 are managed by a third party contractor and activities in Table 5.1 are managed by SRP. One or more of the following control measures are implemented to minimize dust emissions from these potential sources.

**TABLE 5.0 Control Measure Guidelines:** 

Source:	Material Handling and Roadway Control Measure(s)		
Material Handling:	Drop height reduction		
Silo 1 Loading	2. Moisture retention, apply as needed		
(open bed haul truck	3. Wind sheltering, loading chute		
loading operations)			
Silo 2 Loading	Drop height reduction		
(open bed haul truck	2. Moisture retention, apply as needed		
loading operations)	3. Wind sheltering, loading chute		
Paved Roads:	1. Limit Traffic		
Traffic Activity	2. Sweeping of roads		
	3. Water Flushing of roads		
Carryout	Clean vehicles before entering roadway		
	2. Pave access road near site exit		
	3. Rapid cleanup after event		
Spillage	Reducing overloaded trucks		
	2. Wetting materials being hauled		
Unpaved Roads:	1. Water Suppression		
Traffic Activity	2. Chemical stabilization		
	3. Speed reduction		
	4. Limit traffic		
	5. Gravel surface		

#### **TABLE 5.1 Control Measure Guidelines:**

Source:	Material Handling/Processing Control Measure(s)		
Spillage (conveyance from	1. Enclosure		
post-furnace to enclosed silos)	2. Rapid cleanup after spill events		

Monitor: Verify control measures weekly.

<u>Flyash Point Sources:</u> The potential sources listed in Table 6.0 are managed by SRP and utilize particulate control devices to control emissions.

**TABLE 6.0 Emission Control Devices:** 

Unit ID / Stack ID:	Control Device	Make / Size	Stack Details
Silo 1 (storage activity)	DC-S1/2 (baghouse on top of Silo 1)	Scientific Dust Collectors	EX Fan facing south on west end of baghouse. Opening: 2.5 feet by 4 feet
Silo 2 (storage activity)	DC-S3 (baghouse on top of Silo 2)	Scientific Dust Collectors	EX Fan facing south on west end of baghouse. Opening: 2.5 feet by 4 feet
Silo 1 Loading (enclosed fly ash trucks loading)	DC-S1/2 (baghouse on top of Silo 1)	Scientific Dust Collectors	Facing skyward on east side of baghouse. Opening: 1 foot by 2 feet
Silo 2 Loading (enclosed fly ash trucks loading)	DC-S3 (baghouse on top Silo 2)	Scientific Dust Collectors	EX Fan facing south on west end of baghouse. Opening: 2.5 feet by 4 feet

<u>Monitor:</u> Weekly visible emission observations will be recorded for each control device listed above that is operating. If visible emissions are observed, opacity readings will be conducted in accordance with EPA Method 9.

#### 4.5 Limestone Handling

All Limestone Non-Point and Point sources are managed in accordance with the NGS Title V Operating Permit, Section II.D. NSPS, Subpart OOO requirements.

Limestone Handling Non-point Sources:

**Table 7.0 Control Measure Guidelines:** 

Source:	Control Measure(s)		
Material Handling:	Not Applicable - Truck dumping of non-metallic minerals into		
Unloading Bay A and B (truck unloading operations)	any screening operation, feed hopper, or crusher is exempt per 40 CFR 60.672(d)		
LS – Limestone Storage Pile	Water suppression		
	2. Maintain visible surface crust		

Monitor: Weekly observations will be recorded.

<u>Limestone Handling Point Sources:</u> The potential sources listed in Table 8.0 utilize particulate control devices to control emissions.

**Table 8.0 Control Devices:** 

Unit ID / Stack ID:	<b>Control Device</b>	Make / Size	Stack Details
O-LSH-HOP-A O-LSH-FDR-A O-LSH-CNV-A	DC-9 (Baghouse on SW corner of Limestone Handling)	Mac Equipment Company, Serial number 95- FMCF361Filter, 12X12X38.1 feet tall, 22,000 pounds and a design capacity of 18,000 ACFM.	Facing skyward. Opening: 34 inch diameter pipe
O-LSH-HOP-B O-LSH-FDR-B O-LSH-CNV-B	DC-10 (Baghouse on NE corner of Limestone Handling)	Mac Equipment Company, Serial number 96- MCF361Filter, 12X12X38.1 feet tall, 22,000 pounds and a design capacity of 18,000 ACFM.	Facing skyward. Opening: 34 inch diameter pipe
O-LSH-SILO-A&B	DC-11 (Baghouse on W side of Limestone Prep Building)	Mac Equipment Company, Serial number 95-FMCF- 07-007, Model number 96- MCF255Filter, 10X10X32.2 feet tall, 9,200 pounds and a design capacity of 12,681 ACFM.	Facing skyward. Opening: 30 inch diameter pipe

Monitor: Weekly observations will be recorded.

Opacity limitations are as follows:

- No greater than 15% from any crusher without a capture system.
- No greater than 10% from any transfer point without a capture system.
- No greater than 7% from any stack emissions or building vent enclosing any transfer point or crushing operations.
- Truck dumping of nonmetallic minerals into any screening operations, feed hopper or crusher is exempt per 40 CFR 60.672(d).

## 4.5 Soda Ash and Lime Handling

All Soda Ash Point sources are managed in accordance with the FIP conditions in 40 CFR Part 49 §49.24(d)(3).

<u>Soda Ash and Lime Handling Point Sources:</u> The potential sources listed in Table 9.0 utilize particulate control devices to control emissions.

Table 9.0	Control Device	Make / Size	Stack Details
Control Devices:Unit			
ID / Stack ID:			
SAB-1A, SAB-2A, SAB-1B, SAB-2B (water treatment soda ash storage activity)	DC-BH6 (baghouse on top of Bin 3)	Scientific Dust Collectors	Exhaust opening facing south on top of baghouse. Opening: 6" I.D.
LB-1 & LB-2 (water treatment lime storage activity)	DC-BH7 (baghouse on top of Bin 1)	Scientific Dust Collectors	Exhaust opening facing south on top of baghouse. Opening: 6" I.D.

Monitor: Weekly observations will be recorded.

Opacity limitations are as follows:

• No greater than 20% from any capture system.

#### **5.0 INSPECTIONS**

The effectiveness of control measures will be evaluated using regular inspections and documentation of visible emissions, as applicable. Dust control devices will be operated and maintained with opacity emission limits specified in the Federal Implementation Plan - 40 CFR Part 49 §49.24(e)(8).

Inspections shall be performed weekly by trained and certified Method 9 observers. For non-point sources the inspectors shall document active control measures that are being used to minimize dust emissions. In the case of point sources, the observers shall perform visible emission observations. If visible emissions are observed, opacity readings will be conducted in accordance with EPA Method 9.

See Section 9 – Weekly Inspection Forms

#### 6.0 RECORD KEEPING AND REPORTING

SRP will maintain records of weekly inspection records, Method 9 certification training, and Method 9 observations.

SRP will make reports as necessary in accordance with the Federal Implementation Plan - 40 CFR Part 49 §49.24(f).

For excess emissions, SRP will notify the Navajo Environmental Protection Agency Director and the U.S. Environmental Protection Agency Regional Administrator by telephone or in writing within one business day.

The notifications will be sent to the Director, Navajo Environmental Protection Agency, by mail to: P.O. Box 339, Window Rock, Arizona 86515, or by facsimile to: (928) 871–7996 (facsimile), and to the Regional Administrator, U.S. Environmental Protection Agency Region 9, by mail to the attention of Mail Code: AIR–5, at 75 Hawthorne Street, San Francisco, California 94105, by facsimile to: (415) 947–3579 (facsimile), or by e-mail to: r9.aeo@epa.gov.

A complete written report of the incident shall be submitted to the Regional Administrator within ten (10) working days after the event. This notification shall include the following information:

- (i) The identity of the stack and/or other emissions points where excess emissions occurred;
- (ii) The magnitude of the excess emissions expressed in the units of the applicable emissions limitation and the operating data and calculations used in determining the magnitude of the excess emissions;
- (iii) The time and duration or expected duration of the excess emissions;
- (iv) The identity of the equipment causing the excess emissions;
- (v) The nature and cause of such excess emissions;
- (vi) If the excess emissions were the result of a malfunction, the steps taken to remedy the malfunction and the steps taken or planned to prevent the recurrence of such malfunction; and (vii) The steps that were taken or are being taken to limit excess emissions.

#### 7.0 ROADWAY EQUIPMENT

2 – Water Truck

Owner: HRI Make: Komatsu, Model Mega, 13,000 gallon capacity SRP RENTAL Make: International, Model 4300, 4,000 gallon capacity

1 – Water Pull

Owner: SRP Make: Caterpillar, Model 621-G, 8,000 gallon capacity

2 - Ride-On Sweeper

Owner: SRP Make: Tennet, Model 355-G, 14 cubic feet hopper volume Owner: SRP Make: Tennet, Model 830, 3.4 cubic yard hopper volume

1 – Vacuum Truck

Owner: SRP Make: International, Supersucker Model 5227, 15 cubic yard capacity

#### 8.0 TRAINING

At least two (2) on-site personnel will obtain EPA Method 9 certifications and receiving training regarding weekly inspections and provisions of this plan. A copy of the NGS FIP Dust Control Plan will be made available to plant personnel and the third party contractor responsible for handling coal combustion residues and limestone deliveries.

#### 9.0 ATTACHMENTS

- 9.1 Facility Map
- 9.2 Weekly Inspection Forms
- 9.3 Visible Emissions Form

# **Facility Map**

# **Weekly Inspection Forms**

## WEEKLY INSPECTION FORMS

NGS FIP WEEKLY OBSERVATIONS – 20% OPACITY LIMIT									
Certified Observer (Circle)	Walter Begay	Jon Adams	LD Shakespear	Datas					
Signature:				- Date:					
	SRP/NGS								
Non-Point Sources (Coal Handling and Storage) MATERIAL HANDLING AND STORAGE CONTROL MEASURES									
Source (Unit ID)		e(s) Implemente		Comments:					
Material		rom wind - enclos							
Handling: (CT1)			imum hopper level						
Railroad car	maintain								
unloading	3. Water sp								
operations	1	, ,							
(L1-L12) Twelve	1. Shelter f	rom wind - enclos	sure						
hopper feeders	2. Watering	7							
	3. Chemica	l stabilization							
(BC-1) Belt	<ol> <li>Shelter f</li> </ol>	rom wind - enclos	sure						
Conveyor	2. Water sp								
		l stabilization							
(BC-2)	Shelter from wind - enclosure								
	2. Maintain moisture								
(BC-3)	1. Shelter from wind - enclosure								
(D.C. A)	2. Maintain moisture								
(BC-4)	1. Shelter from wind - enclosure								
(DC 4A)	2. Maintain moisture								
(BC-4A)	<ol> <li>Shelter from wind - enclosure</li> <li>Maintain moisture</li> </ol>								
(BFD-5A)		rom wind - enclos	01140						
Belt Feeder Deck		i moisture	sure						
(BC-5)		rom wind - enclos	CIITA						
(BC-3)		moisture	suic						
( <b>BC-6A</b> ) 1 of 3		rom wind - enclose	sure						
stacker / reclaimer	2. Water sp		surc						
reversible	3. Chemical stabilization								
conveyers									
( <b>BC-6B</b> ) 2 of 3	Shelter f	rom wind - enclos	sure						
stacker conveyer		moisture							
only									
( <b>BC-6C</b> ) 3 of 3	1. Shelter f	rom wind - enclos	sure						
stacker / reclaimer									
reversible									
conveyers									

#### SRP/NGS **Non-Point Sources (Coal Handling and Storage)** MATERIAL HANDLING AND STORAGE CONTROL MEASURES Source (Unit ID) **Control Measure(s) Implemented (Circle) Comments:** 1. Shelter from wind - enclosure (BC-6) 2. Water spraying 3. Chemical stabilization (**BC-7**) One 1. Shelter from wind - enclosure conveyor to the 2. Water spraying 3. Chemical stabilization emergency reclaim hopper Wind Erosion: 1. Maintain moisture or visible crust (CS) Outdoor coal 2. Water spraying storage piles 3. Chemical stabilization Point Sources (Coal Handling and Storage) PARTICULATE CONTROL DEVICES Source (Unit ID) **Control Device** Is there VE? **Is Control** Was EPA Device Method 09 **Operating?** conducted? (Check one) (Check one) (Check one) NO\*\* YES NO **YES** NO YES\* YSB-1 BC-8A & BC-8B DC-8 **BC-8A & BC-8B** screening operation PSB-1 DE-5 BC-9A & BC-9B BC-10A & BC-10B CC-6A/6B & Silos 1A thru 1C DE-1 (coal silos) CC-4A/4B, CC-5A/5B & DE-2 Silos 1D thru 1G (coal silos) PR-1 SR-1 EX-1 **Cascade Enclosure**

<sup>\*</sup> Note: Complete one Method 9 VE Observation Form for each control device if visible emissions are observed.

<sup>\*\*</sup>Note: Method 9 VE Observation Form was not completed due to: Wind Direction / Sun Position / Other. Explain:

#### SRP/NGS **Point Sources (Coal Handling and Storage - Continued)** PARTICULATE CONTROL DEVICES Source (Unit ID) **Control Device Is Control** Is there VE? **Was EPA** Device Method 09 **Operating?** conducted? (Check one) (Check one) (Check one) NO\*\* YES NO YES YES\* NO CC-3A/3B, CC-11A/11B & DE-3 Silos 2A thru 1C (coal silos) CC-1A/1B, CC-2A/2B & DE-4 Silos 2D thru 1G (coal silos) **Cascade Enclosure** PR-2 SR-2 EX-2 CC-7A/7B, CC-8A/8B & DE-6 Silos 3A thru 1D (coal silos) CC-9A/9B & Silos 3E thru 1G DE-7 (coal silos) **Cascade Enclosure** PR-3 SR-3 EX-3 **Point Sources (Fly Ash Handling and Storage)** PARTICULATE CONTROL DEVICES Source (Unit ID) **Control Device Is Control Device** Is there VE? Was EPA **Operating?** Method 09 conducted? (Check one) (Check one) (Check one) NO\*\* YES NO YES NO YES\* Silo 1 (ash silo DC-S1/2 storage) Silo 2 (ash silo DC-S3 storage)

<sup>\*</sup> Note: Complete one Method 9 VE Observation Form for each control device if visible emissions are observed.

<sup>\*\*</sup>Note: Method 9 VE Observation Form was not completed due to: Wind Direction / Sun Position / Other. Explain:

#### SRP/NGS **Point Sources (Fly Ash Handling and Storage)** PARTICULATE CONTROL DEVICES **Control Device Is Control Device** Is there VE? Source Was EPA **Operating?** Method 09 conducted? (Check one) (Check one) (Check one) NO\*\* YES\* YES NO YES NO Silo 1 Loading (1 of 2 loading; DC-S1/2 enclosed trailer loadout) Silo 2 Loading (2 of 2 loading; DC-S3 enclosed trailer loadout)

<sup>\*\*</sup>Note: Method 9 VE Observation Form was not completed due to: Wind Direction / Sun Position / Other. Explain:

Non-Point Sources (Fly Ash Handling and Storage) MATERIAL HANDLING AND ROADWAY CONTROL MEASURES						
Source	Control Measure(s) Implemented (Circle)  Comments:					
Material	Drop height reduction					
Handling:	2. Moisture retention, apply as needed					
Silo 1 Loading	<ol><li>Wind sheltering, loading chute</li></ol>					
(2 of 2 loading;						
open bed haul truck						
loading operations)						
Silo 2 Loading	1. Drop height reduction					
(2 of 2 loading;	2. Moisture retention, apply as needed					
open bed haul truck	3. Wind sheltering, loading chute					
loading operations)						
Paved Roads:	1. Limit Traffic					
Traffic Activity 2. Sweeping of roads						
	3. Water Flushing of roads					
Carryout	1. Clean vehicles before entering roadway					
	2. Pave access road near site exit					
	3. Rapid cleanup after event					
Spillage	Reducing overloaded trucks					
	2. Wetting materials being hauled					
<b>Unpaved Roads:</b>	1. Water suppression					
Traffic Activity	2. Chemical stabilization					
	3. Speed reduction					
	4. Limit traffic					
	5. Gravel surface					

<sup>\*</sup> Note: Complete one Method 9 VE Observation Form for each control device if visible emissions are observed.

SRP/NGS								
Non-Point Sources (Fly Ash Handling and Storage) MATERIAL HANDLING AND ROADWAY CONTROL MEASURES								
Source	Control Measure(s) Implemented	(Circle)		Com	Comments:			
Spillage (conveyance from post-furnace to enclosed silos)	<ol> <li>Enclosure</li> <li>Rapid cleanup after spill even</li> </ol>							
	Non-Point PAVED ROADWAY CO		MEASU	RES				
Source	Control Measure(s) Implemented	(Circle)		Com	ments:			
Paved Roads: Traffic Activity	1. Water Spraying of Roads 2. Reduce Speed 3. Limit Traffic 4. Sweeping of roads							
Carryout	<ol> <li>Clean vehicles before enteri</li> <li>Pave access road near site e</li> <li>Rapid cleanup after event</li> </ol>	xit	ay					
	Non-Point UNPAVED ROADWAY C		I MEAC	UDEC				
Source			L MILAS		ments:			
Unpaved Roads: Traffic Activity	Control Measure(s) Implemented (Circle)  Comments:  1. Watering 2. Chemical stabilization 3. Speed reduction 4. Limit traffic 5. Gravel surface  Point Sources (Soda Ash Handling and Storage)							
	PARTICULATE CON							
Source (Unit ID)	Control Device  Is Control Device Operating? (Check one) YES   NO   YES   NO				Was EPA Method 09 conducted? (Check one) YES*   NO**			
SAB-1A, SAB-2A, SAB-1B, SAB-2B (water treatment soda ash storage activity)	DE-BH6							
* Note: Complete one Method 9 VE Observation Form for each control device if visible emissions are observed.  **Note: Method 9 VE Observation Form was not completed due to: Wind Direction / Sun Position / Other. Explain:								

SRP/NGS  Point Sources (Lime Handling and Storage) PARTICULATE CONTROL DEVICES								
Source (Unit ID)	Control Device  Is Control Device Operating? (Check one) YES   NO   YES   NO   YES*    Was EI   Method   Conduct   Check   Che				1 09 ted?			
LB-1 & LB-2 (water treatment lime storage activity)	DE-BH7							

NGS LIMESTONE WEEKLY OBSERVATIONS – 7, 10, 15 & 20% OPACTIY LIMITS								
Point Sources (Limestone Handling and Storage)								
PARTICULATE CONTROL DEVICES								
Source (Unit ID)	Control Device (LIMT)	Is Control	Is the	nere VE?   Was EPA				
		Operating	•				Method 09 conducted?	
		(Check one) (Cl			k one)	(Check one)		
				YES	NO	YES* NO**		
O-LSH-HOP-A								
O-LSH-FDR-A	DC-9 (7% Opacity Limit)							
O-LSH-CNV-A								
O-LSH-HOP-B								
O-LSH-FDR-B	DC-10 (7% Opacity Limit)							
O-LSH-CNV-B								
O-LSH-SILO-	DC-11 (7% Opacity Limit)							
A&B								
Point and Non-Point Sources (Limestone Handling and Storage)								
	MATERIAL HANDLING AND STORAGE MEASURES							
Source	CIRCLE Control Measures Implemented (LIMIT) Comments:							
O-LSP-FDR-	1. Enclosures - Pt. Src. Opacity Limits: From							
A&B, O-LSP-	baghouses, stacks and bldg. vents/openings 7%							
CNV-A&B	2. Non-Enclosed - Fugitive Src. Opacity Limits: From							
	transfer pts. 10% / crushing 15%.							
	3. Dumping – Some activity is exempt							
Limestone	1. Watering							
Storage Pile (LS)	2. Maintain visible crust							
* Note: Complete on Method OVE Observation Form for each control device if visible emissions are								

<sup>\*</sup> Note: Complete one Method 9 VE Observation Form for each control device if visible emissions are observed.

<sup>\*\*</sup>Note: Method 9 VE Observation Form was not completed due to: Wind Direction / Sun Position / Other. Explain:

# **Visible Emissions Form**

SRP/NGS VISIBLE EMISSION OBSERVATION FORM									
Observati	on Date:	te: Start <sup>-</sup>			End Time:				
Process Equipment:				LIMIT	Process Control Device* (circle):				
Title V Co	e Handling Syndition: II.D.5	5.ii & II.D.6		7%	DC9 DC10 DC11 or Bldg. Vents				
FIP Dust	erial Handling Control Plan	Table 2.0		20%	DE1 DE2 DE3 DE4 DE5 DE6 DE7 DC8				
Fly Ash Handling / Storage FIP Dust Control Plan Table 3.0				20%	DCS1/2 DCS3				
FIP Dust	Trailer Loadi Control Plan	Table 7.0		20%	DCS1/2 DCS3				
	and Lime Ha Control Plan	_		20%	DEBH6 DEBH7				
Plume Co	lor:	Plume	Backgro	ound:	Sky:				
Wind Spe	ed (mph):	Wind I	Direction	(N-E-S-W)	: Temperature (°F):				
Stack Ht.	- above 0 elev	. (feet):S	Stack Dis	stance and l	Ht. in relation to Observer (feet):				
SKETCH (symbols)- INDICATE BY DRAWING:  1. NORTH ARROW (→), True North is 22° east of Plant North  2. STACK POSITION (Δ) in relation to OBSERVER (X)  3. SUN POSITION (S) in relation to Observer Facing Stack  Recording Observations. Opacity observations shall be recorded to the nearest 5 percent at 15-second intervals on an observational record sheet. A minimum of 24 observations shall be recorded.  Each momentary observation recorded shall be deemed to represent the average opacity of emissions for a 15-second period.  Data Reduction. Opacity shall be determined as an average of 24 consecutive observations. A set is composed of any 24									
observations		erage by summing			o case shall two sets overlap. For each set of 24 servations and dividing this sum by 24.				
Minute	0 second	15 sec 3	30 sec	45 sec	Comments				
1									
2									
4									
5									
6									
	<u>I</u> Sur	l <u> </u>	ngs / 24 ob	servations =	Average opacity**				
1					<u> </u>				
2									
3									
4									
5									
6			/01 :	an and the	A				
Sum of opacity readings / 24 observations = Average opacity**  *Note: Complete one sheet for one control device with emissions.									
					stapuk and Operations IMMEDIATELY!				
Observer:				Date:					